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APPLICATION NO. FILING DATE 09/816,643 03/23/2001	FIRST NAMED INVENTOR Seiyo Nakashima	ATTORNEY DOCKET NO. CONFIRMATION NO. 6862			
26021 7590 09/09/2002 HOGAN & HARTSON L.L.P. 500 S. GRAND AVENUE SUITE 1900 LOS ANGELES, CA 90071-2611		EXAMINER  KACKAR, RAM N  ART UNIT PAPER NUMBER  1763			

DATE MAILED: 09/09/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No	).	Applicant(s)	9
		09/816,643		NAKASHIMA ET	AL.
	Office Action Summary	Examiner		Art Unit	
		Dom N Kackar		1763	
	The MAILING DATE of this communication app	nears on the cov	er sheet with th		ddress
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THE M/ - Extensi- after SI - If the po - If NO p - Failure - Any rep- earned	IAILING DATE OF THIS COMMINATION OF THIS communication, sions of time may be available under the provisions of 37 CFR 1.13; IX (6) MONTHS from the mailing date of this communication. Seriod for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period veriod for reply within the set or extended period for reply will, by statute uply received by the Office later than three months after the mailing of patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, ho bly within the statutory r will apply and will expi te, cause the application ng date of this commun	minimum of thirty (30) ire SIX (6) MONTHS fi	e timely filed  days will be considered time from the mailing date of this ONED (35 U.S.C. § 133).	nely. communication.
Status 1\⊠	Responsive to communication(s) filed on 13 A	<u>August 2002</u> .			
· _	2h\⊠ Th	his action is nor	n-final.		th. ·
2a)□	This action is the in-		r formal matters	s, prosecution as to	the merits is
	closed in accordance with the practice under	r Ex parte Quay	ne, 1935 C.D. 1	<sub>: 1,</sub> 455 U.G. 213.	
Disposition	on of Claims				
4112	Claim(s) 1-12 is/are pending in the applicatio	UII.	eration		
4	4a) Of the above claim(s) 10-12 is/are withdra	awn trom consic	avrativii.		
5) 🗌	Claim(s) is/are allowed.				
6)⊠	Claim(s) 1-9 is/are rejected.				
71	Claim(s) is/are objected to.		iirama ant		
8)□	Claim(s) are subject to restriction and/	n/or election req	un ernent.		
Applicati	ion Papers				
	- :carties is objected to by the Examin	ner.	vierted to hutha	Examiner.	
10)	- · · · · · · · is/are · a) □ acc	cepted or b) 🔲 ob	a held in abover	te. See 37 CFR 1.850	(a).
1	· that any objection to	the drawing(S) of	e nela in abcyana	00. 0	miner.
11)	The proposed drawing correction filed on	is: a)[_] app	Noved D) Class	,,-	
	If approved, corrected drawings are required in	reply to this Office			
1	The oath or declaration is objected to by the I	<u> _</u> ланшин.			
			252511000	119(a)-(d) or (f)	
13)⊠	Acknowledgment is made of a claim for fore	eign priority und	<sub>າວເ</sub> ລວ ປ.ວ.C. §	(u) (u) (i).	
a	None of:				
	4 57 Contified copies of the priority docume	nents have been	received.	nlication No	
	- vis a remise of the priority docume	nents have been	ı receivea in Ap	opposed in this kind	- onal Stage
	3. Copies of the certified copies of the p application from the International	priority documer Il Bureau (PCT F	nts have been r Rule 17.2(a)). ied copies not re	received in this real.	John Guge
*	<ul> <li>See the attached detailed Office action for a language of a claim for dome</li> <li>Acknowledgment is made of a claim for dome</li> </ul>	estic priority un	der 35 U.S.C. &	} 119(e) (to a provis	sional application
		o provicional ant	niicanon nas pe	5611 1C0014 0 G.	
15)	<ul> <li>a) The translation of the foreign language</li> <li>Acknowledgment is made of a claim for dom</li> </ul>	nestic priority u	nder 35 U.S.C.	§§ 120 and/or 121.	
Attachm	nent(s)		4) C Interview S	Summary (PTO-413) Pag	per No(s)
1) 🔀 No	otice of References Cited (PTO-892) otice of Draftsperson's Patent Drawing Review (PTO-948) oformation Disclosure Statement(s) (PTO-1449) Paper No.	3) n(s) <u>6 and 7</u> .	4) Interview S 5) Notice of In 6) Other:	Summary (PTO-413) Pap Informal Patent Application	on (PTO-152)

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### **DETAILED ACTION**

#### Election/Restrictions

1. Claims 10-12 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a non-elected group, there being no allowable generic or linking claim. Election was made without traverse in Paper No. 10.

# Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 1-7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The claims are generally narrative and indefinite, failing to conform with current U.S. practice. They appear to be a literal translation into English from a foreign document and are replete with grammatical and idiomatic errors. Last paragraph in claim 1 and in claim 2 is not clear.

# Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1-8 are rejected under 35 U.S.C. 102(b) as being anticipated by MacLeish et al (US5653808). MacLeish et al disclose a processing chamber (Fig 2), a susceptor (Fig 2-50), a

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heating unit disposed below the susceptor (Fig 2-44), the susceptor capable of lifting, lowering and being rotatable with respect to heating unit (Col 4 line 65 to Col 5 line 5).

Regarding claim 3 the susceptor and the heating unit are capable of being lifted and lowered together so that the distance between the two may be kept constant (Col 5 line 34-37).

Regarding claim 4 and 5 the apparatus for lifting and lowering the substrate is partly disposed inside the susceptor (Fig 1-54) and partly outside (Fig 1-48).

Regarding claim 6 the susceptor has a central member (Fig 2) and an attached peripheral member (Fig 2-50a) and the lifting apparatus is attached to the central member (Fig 2-48).

Regarding claim 7 the heating member is in three independently controllable parts so that at least one may correspond to the central part and one may correspond to the peripheral part (Col 4 56-60).

Regarding claim 8, in addition to the disclosure in paragraph 1, MacLeish et al also disclose a structure of susceptor so that when a substrate sits on it, its upper surface will be substantially flush with the peripheral part (Fig 3b).

## Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all 6. obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over MacLeish et al 7. (US5653808) in view of Okayama et al (US 6334983). MacLeish et al do not disclose a member made of quartz being flush with upper surface of susceptor and disposed in an outer periphery of

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said susceptor. Okayama et al disclose a quartz ring disposed on the susceptor at periphery and

substantially flush with the upper surface of the susceptor (Fig 1-126 and Col 7 line 45-50) for

focusing the plasma. There fore it would have been obvious for one of ordinary skill to modify

the susceptor of MacLeish et al with a quartz ring on the periphery so as to serve as a focus ring.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Ram N Kackar whose telephone number is 703 305 3996. The

examiner can normally be reached on M-F 8:00 A.M to 5:P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Gregory Mills can be reached on 703 308 1633. The fax phone numbers for the

organization where this application or proceeding is assigned are 703 872 9310 for regular

communications and 703 872 9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 703 308 0661.

RK

September 5, 2002

GREGORY MILLS
SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 1700